AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (Currently Amended) Frequency A frequency allocation scheme for optical channels transmitted via a <u>WDM WDM</u> transmission line with alternating left side and right side filtering for adjacent channels, comprising:
 - -Having channels with alternating channel spacing of A and B, where A<B,
 - -Having two sets of channels orthogonally polarized, and

means at a receiver for alternately left-side and right-side filtering sidebands of the adjacent channels.

2. (Currently Amended) Frequency A frequency allocation scheme according to claim 1 for optical channels transmitted via a WDM transmission line with alternating left side and right side filtering for adjacent channels, comprising:

channels with alternating channel spacing of A and B, where A<B,

two sets of channels orthogonally polarized,

where the two <u>set s sets</u> of <u>orthogonal orthogonally</u> polarized channels are shifted versus each <u>others other</u> by a value $\frac{A/2 + \delta_{\text{Filter}}}{A/2 + \delta_{\text{Filter}}} \pm 20\%_2$

- 3. (Currently Amended) <u>Transmission A transmission system</u> with a transmitter function, a transmitting fiber and a receiver function, <u>wherein</u>:
- The the transmitter function comprising comprises polarized light sources (1), with modulators (2) and a wavelength multiplexer (3); and
- *The the receiver function comprising comprises at least a polarization demultiplexer (11), a wavelength demultiplexer (5), filters and electrical receivers.

said filters performing alternating left-side and right-side filtering for adjacent received channels which are transmitted via a WDM transmission line.